Precalculus Quiz 1.1 – 1.4

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| Instructor: | Miss Lewis | Name: |  |
| Class: | Precalculus | Date: |  |

Read each question carefully and select the best answer choice. Mark only on your own paper or the bubble sheet. You are required to show all of your work for starred (\*\*) problems. You will not receive credit for problems that are starred unless you show your work.

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| \*\*1) |  | Find an equation of the line that passes through the point (4, -1) and has a slope of |  |
|  | a. | y = - 1 |  |
|  | b. | y = + 1 |  |
|  | c. | y = + 3 |  |
|  | d. | y = - 3 |  |
|  | e. | None of these |  |

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| \*\*2) |  | Is the following function even or odd? |
|  | a. | Even |
|  | b. | Odd |
|  | c. | Both |
|  | d. | Neither |
| 3) |  | Determine which points lie on the line that contains the point (2, 9) with a slope of 0. |
|  | a. | (9, 0) |
|  | b. | (3, 9) |
|  | c. | (2, 5) |
|  | d. | All of these lie on the line. |
|  | e. | None of these lie on the line. |

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| 4) |  | Find the equation of the line that passes through the point (-2, 6) parallel to the line |
|  | a. | y = |
|  | b. | y = + 6 |
|  | c. | y = + 18 |
|  | d. | y = + 9 |
|  | e. | None of these |

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| \*\*5) |  | Find the equation of the line that passes through the point (3, 5) and is perpendicular to the line x + 2y = 8. |
|  | a. | y = |
|  | b. | y = + 8 |
|  | c. | y = + 2 |
|  | d. | y = - 2 |
|  | e. | None of these |
| 6) |  | Find the x-intercept(s): 4x2 + y2 + 9xy – 16 = 0. |
|  | a. | ±, 0) |
|  | b. | (±, 0) |
|  | c. | (4, 0) |
|  | d. | (16, 0) |
|  | e. | None of these |

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| 7) |  | Given |
|  | a. | -61 |
|  | b. | 41 |
|  | c. | -55 |
|  | d. | 67 |
|  | e. | None of these |

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| \*\*8) |  | Find the domain of the function: |
|  | a. | ( |
|  | b. | ( |
|  | c. | [-6, |
|  | d. | ( |
|  | e. | None of these |
| \*\*9) |  | Find the domain of the function: |
|  | a. | ( |
|  | b. | ( |
|  | c. | , |
|  | d. | , ( |
|  | e. | None of these |
| 10) |  | Determine the open intervals in which the function is increasing, decreasing, or constant. |
|  | a. | Increasing on ( |
|  | b. | Increasing on (decreasing on ( |
|  | c. | Increasing on (, (0, decreasing on (-2, 0) |
|  | d. | Increasing on (, decreasing on (3, 0) |
|  | e. | None of these |